

*School of Electronic Engineering and Computer Science, Queen Mary  
University of London*

## **FINAL YEAR PROJECT SPECIFICATION**

### **Session 2016-17**

*This project specification must be undertaken in consultation with your supervisor.  
The feasibility of the project should have been assessed and the project aims should  
be clearly defined.*

*Submission of this document implies that you have discussed the specification with  
your supervisor.*

**Project Title: Reservation Database System with Analysis**

**Supervisor: Dr. Pengwei Hao**

**Student name: Chieh-Yu Chou**

**Student Email: c.y.j.chou@se14.qmul.ac.uk**

**Student Contact telephone number: +44 7871283175**

**PROJECT AIMS:**

*State the design, development or research challenge that the project aims to solve.*

This project aims at improve the current system by interviewing with the end users (customers and managers). Then analysis the feedback, add those suggestions into the system.

Aims and functions:

- Improvement on the current existing restaurant reservation booking system.
- Easy and simple to use.
- Adding the new features into the system.
  - Analysis tools for the manager (shows daily/seasonally/yearly statistics)
  - Graphical results (bar chart, line graph, etc.)
  - Ranking system (data are comparable)
  - Searchable (data are searchable)

**METHODOLOGY:**

*Describe the various steps that you intend to follow in order for you to achieve your project aims.*

- Set up GitHub repository.
- Research must be carrying out on current existing restaurant reservation system.
- Survey and interview must be done with the end users.
  - Including customers, staff and managers.
- States what are the statistics/data that manager interested from the booking system.
- Entity relationship diagram required.
- Relational database schema required.
- Normalized design table required.
- Regular meeting with the supervisor.
- Research requirements and designs.

**PROJECT MILESTONES**

*Indicate what measurable/tangible components you will produce as part of this project. This may take the form of deliverable document(s) or developmental milestones such as a working piece of software/hardware.*

- The end system accessible via smartphone browser and website.
- Entity relationship diagram.
- Relational database schema.
- Normalized design table.
- Weekly meeting checkpoint.
- Research and design document.

**REQUIRED KNOWLEDGE/ SKILLS/TOOLS/RESOURCES:**

*Indicate as far as possible the skills that are required for you to undertake this project. Also include any software, hardware or other tools or resources that you believe you will need.*

Here is the list of languages and software that I will use to develop my project:

- Languages
  - Java
  - SQL
- Software
  - NetBeans
  - SQLite Browser
  - JavaFX Scene Builder
  - Visual Paradigm
  - Java 3D

**TIMEPLAN**

*This can be a GANTT chart submitted with this document or a list of tasks, milestones and deliverables with timings.*

Project Time Plan

Project decision & Project Specification(07.10.16 - 31.10.16)

- Confirm supervisor
- Project ideas
- Project title
- Writing specification
- Specification checking
- Improve specification from supervisor's comments
- Upload specification to qmplus

Interim report & Risk assessment (31.01.16 - 09.12.16)

Project Draft report (09.12.16 - 20.03.17)

Final report (20.03.17 - 24.04.17)

Presentation slides & Destination form (24.04.17 - 26.04.17)

Project vivas (26.04.17 - 12.05.17)

